	Application No.	Applicant(s)
	10/643,883	SHIMA, MASASHI
Notice of Allowability	Examiner	Art Unit
	Kevin Quinto	2826
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSE( ) or other appropriate con IGHTS. This application	O in this application. If not included number in the mailed in due course. <b>THIS</b>
1. This communication is responsive to 24 January 2005.		, /
2. The allowed claim(s) is/are <u>1-10</u> .		NATHAN J. FLYBEN
3. A The drawings filed on 20 August 2003 are accepted by the	Examiner.	***ERVISORY PATENT EXAMINER **CHNOLORY CENTER 2800
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		
2.   Certified copies of the priority documents have	e been received in Applica	ation No
<ol> <li>Copies of the certified copies of the priority do         International Bureau (PCT Rule 17.2(a)).     </li> <li>* Certified copies not received:</li> </ol>	cuments have been recei	ved in this national stage application from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to ÆNT of this application.	file a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached E es reason(s) why the oath	EXAMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	son's Patent Drawing Rev . s Amendment / Comment .84(c)) should be written o	or in the Office action of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MA FOR THE DEPOSIT OF	TERIAL must be submitted. Note the BIOLOGICAL MATERIAL.
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5 🔲 Nation of	Informal Detect Application (DTO 450)
<ol> <li>Induce of References Cited (PTO-692)</li> <li>Induce of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		Informal Patent Application (PTO-152) Summary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper N	lo./Mail Date r's Amendment/Comment
Paper No./Mail Date		
of Biological Material	8. ☐ Examine 9. ☐ Other	's Statement of Reasons for Allowance
or biological iviaterial	ə. 🗀 Other 🔃	·

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- a. Cancel claims 11-21.
- 2. Claims 1-10 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: the examiner is unaware of any prior art which suggests or renders obvious a semiconductor device with collector and base regions formed in a semiconductor substrate which are separated by trench isolation regions that have Si and SiGe layers formed within them. Furthermore the examiner is unaware of any prior art which suggests or renders obvious a semiconductor device with a first silicon layer formed on a SiGe layer in the active region and another silicon layer formed on the first silicon layer and on the sidewalls of an isolation trench or groove such that insulating film within the trench or groove buries it.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**KVQ**